1N5550/US thru 1N5554/US

3A STANDARD RECOVERY RECTIFIERS

TECHNICAL DATA DATA SHEET 126, REV G.1

AVAILABLE AS

1N, JAN, JANTX, JANTXV

JANS

JAN EQUIVALENT*

SJ*, SX*, SV*, SS*

Fast Recovery Rectifiers

Qualified per MIL-PRF-19500/420

DESCRIPTION:

This voidless hermetically sealed standard recovery rectifier diode series is military qualified per MIL-PRF-19500/420 and is targeted for space, commercial and military aircraft, military vehicles, shipboard markets and all high reliability applications.

FEATURES / BENEFITS:

- ✓ Hermetic, non-cavity glass package
- ✓ Category I Metallurgically bonded
- ✓ All parts are 100% hot solder dipped
- ✓ JAN/ JANTX/ JANTXV available per MIL-PRF-19500/420
- ✓ "JANS Plus" removes atypical/out of family V_F

ELECTRICAL CHARACTERISTICS

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^{\circ}$ C unless otherwise specified.

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV) 1N5550 1N5551 1N5552 1N5553 1N5554	-	-	-	200 400 600 800 1000	Vdc
Average DC Output Current (I _o)	T _A = +55 °C	-	-	3.0	Amps
Peak Single Cycle Surge Current (I _{fsm})	t _p = 8.3 ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	100	Amps(pk)
Operating and Storage Temp. (T _{op} & T _{stq})	-	-65	-	+175	°C
Maximum Forward Voltage (V _f) 1N5550 1N5551 1N5552 1N5553 1N5554	I_f = 9.0A (300 μsec pulse, duty cycle < 2%)	-	-	1.2 1.2 1.2 1.3 1.3	Volts

RECTIFIERS

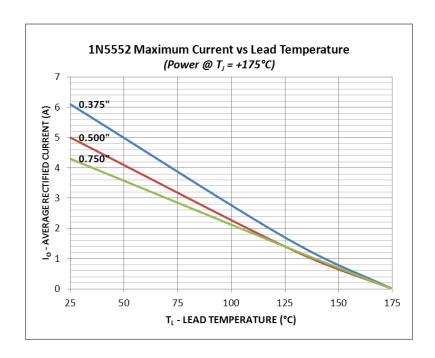


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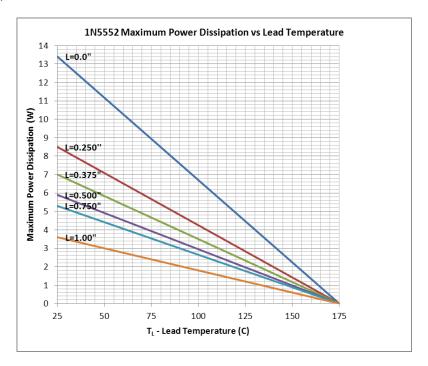
RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Maximum Instantaneous	T _A = 25° C	-	-	1.0	μAmps
Reverse Current At Rated (PIV)	T _A = 100° C			60	
Reverse Recovery Time (t _{rr})	$I_f = 0.5A, I_r = 1.0A, I_{rr}$ = 0.25A	-	-	2000	nsec
Thermal Resistance (θ _{JL})	Junction to Lead			22	°C/W
	d = 0.375"				
Thermal Resistance (θ _{JEC})	Junction to Endcap	-	-	6.5	° C/W

^{*}Sensitron **space equivalent diodes** are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our internal specification.

GRAPHS:

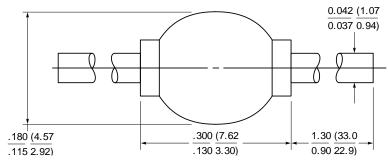


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PACKAGE DIMENSIONS (inches/mm)

AXIAL (PKG 301)



Note: The cathode side is marked with a dark colored band on one side of the diode body.

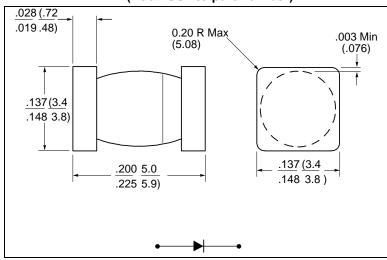


3A STANDARD RECOVERY RECTIFIERS

MELF-B

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MELF (Add "US" to part number)



Note: The cathode side is marked on body with a dark band.

PART ORDERING INFORMATION

The following part numbers can be screened and tested to the military screening flow. The parts are marked in accordance with the testing performed, example:

Sensitron Screening Level	*Part Number Leaded Package (example for 1N5550)	*Part Number Surface Mount Package (example for 1N5550US)
1N	1N5550	1N5550US
JAN	JAN1N5550	JAN1N5550US
JANTX	JANTX1N5550	JANTX1N5550US
JANTXV	JANTXV1N5550	JANTXV1N5550US
SJ	SJ5550	SJ5550US
SX	SX5550	SX5550US
SV	SV5550	SV5550US
JANS	JANS1N5550	JANS1N5550US
SS	SS5550	SS5550US

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- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
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JANTX1N4468 JANTX1N5550US JANS1N6328US JANS1N4469US JANS1N4479US JANTX1N4245 IN5622JANTX IN5642AJANTX

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1N5806USJANTX IN5621 IN6642USJANTX JANTX1N4972US JANS1N6640 IN5811USJANTX IN5802USJANTXV JANTX1N5650A

JANTX1N4963